

# Missouri State Recycling Program Annual Awards

Each year the State Recycling Program accepts nominations for the Annual Recycling Award. Employees, departments, or agencies are eligible to be nominated for outstanding contributions made in the areas of recycling collection, waste reduction, and/or recycled content procurement. Members of the Missouri Interagency Recycling Committee review the nominations and vote for an individual and agency award. The State Recycling Program encourages nominators to submit information demonstrating the **value** of the nominee's recycling efforts. **Value** could include costs avoided, revenue generated, ongoing leadership/commitment/passion/enthusiasm, or environmental benefits.

## FY12 Annual Recycling Awards

### Individual Award: Frank Tidd, Missouri Department of Transportation

Frank Tidd and the crew at the DeSoto maintenance shop located in MoDOT's St. Louis district developed a process that saved the state money, reduced the amount of resources used, and resulted in a safer driving experience for highway users.

Repair of "edge ruts" on Missouri's highways is an ongoing part of maintaining these roads. At one time the DeSoto maintenance shop paid five dollars per ton for rock to fill these "edge ruts". Last year large pieces of cinder were applied to "edge ruts" and proved to be more durable and there was no cost to MoDOT. This change in material saved an estimated \$15,000 in the first several months of use.

MoDOT gets cinders from coal burning power plants at no cost which are used to treat roads in rural parts of the state during winter operations. These large chunks of cinders were sifted out of the regular cinder supply. Use of these larger pieces of cinder to repair edge ruts means MoDOT does not need to use oil when making repairs. The large pieces of cinders also stay in place longer by resisting washouts.

The State Recycling Program congratulates Mr. Tidd and the DeSoto maintenance crew for implementing an idea that is saving money and resources.



Frank Tidd

### Agency Award: Missouri Department of Transportation Route 141 Project Team - St. Louis County



L. to R. Casey Henning, Jason White, Nancy Leroney, Dave Rein | not pictured Josh Topper

A well thought-out plan known as "No Tree Wasted" produced many outstanding results for MoDOT's Route 141 Project Team in St. Louis County – also earning this year's team recycling award. The primary goal was to save or recycle trees impacted during construction.

Instead of allowing the contractor to clear all vegetation from the right-of-way, the clearing allowances were limited. It is estimated that 100 mature trees were saved by utilizing this approach.

MoDOT required that contractor not burn any removed vegetation. Instead the contractor hired a logging company to remove all of the harvestable trees for delivery to a saw mill. A total of 936 logs were harvested resulting in 289,000 board feet of lumber.

Trees that could not be harvested for lumber were mulched on-site and used for erosion control devices around streams, structures, and property lines. The mulch-type erosion control device replaced 2.5 miles of a traditional "silt fence" which is typically made from a type of plastic material. Upon completion of the project the mulch berm can simply be spread out for decomposition.

"No Tree Wasted" produced 308 tons of wood chips, 840 cubic yards of bark mulch, and 735 cubic yards of sawdust. (840 CY is equivalent to 6.5 48-foot tractor trailers filled from floor to ceiling | 735 CY is equivalent to six 48-foot tractor trailers filled from floor to ceiling).

The success of this more sustainable approach to road construction is now being utilized throughout Missouri.

#### How were the harvested trees used?

- ∞ Furniture Industry
- ∞ Hardwood Flooring & Cabinets
- ∞ Frames for Upholstered Furniture
- ∞ Shutters
- ∞ Boat Paddles
- ∞ Wood for the Pallet Industry